

## **ABSTRACT**

The invention relates to a method for registering, identifying and processing of data related to chemical compounds including the steps of: (a) entering information on structure and properties of known chemical compounds into a first group of data bases ; (b) entering information on genes, including alleles, RNAs and proteins into a second group of data bases; (c) entering information on known diseases and on epidemiology into a third group of data bases ; (d) entering information on data relating to individual living organisms into a fourth group of data bases; (e) entering information on any known links between any of the data contained in any of the first, second, third and forth groups of data bases into a fifth group of data bases; (f) developing a tool for mining and visualizing of data; and (g) applying the tool for mining and visualizing of data to generate new knowledge on effects of chemical compounds, alleles and gene products on given individual living organisms.